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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,898	07/31/2003	Bar-Chung Hwang	Q76735	9624
23373	7590	12/06/2005	EXAMINER	
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			BATAILLE, PIERRE MICHE	
			ART UNIT	PAPER NUMBER
			2186	

DATE MAILED: 12/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/630,898	HWANG ET AL.	
	Examiner	Art Unit	
	Pierre-Michel Bataille	2186	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 31 July 2003.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-20 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ .	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____ .

DETAILED ACTION

1. This Office Action is taken in conjunction to prosecution of the instant application presenting claims 1-20 for examination.
2. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors.

Claim 1 recites: "a global register for storing a control value and a mapped said first status value or mapped said second status value, or storing a control value, a mapped said first status value and mapped said second status value". This clause is unclear as it is not clear whether the global register stores: "a control value or mapped first status value or mapped second status value", or all three, or two of the three.

Claim 2: "value" lack proper antecedent basis. It is unclear whether to refer to control value of first status value or second status value.

Please note that these are merely exemplary. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by US 5,751,638 (Mick et al).

With respect to claims 1, 6, 9, 12, 15, and 18, Mick discloses a dual port structure (**Fig. 3 and 23-24**), wherein said structure has a first port and a second port, and a CPU (**corresponding access requesting device Col. 5, Line 63 to Col. 6, Line 11**) uses said dual ports structure to access said first port or said second port [**first and second ports (left and right ports) for communicating respectively with first and second resource sharing electronic devices**], said dual ports structure comprising: a first register bank for storing values of said first port, wherein said values comprise a first status value; a second register bank for storing values of said second port, wherein said values comprise a second status value (**left and right memory bank address circuits having left and right status registers storing value of the right and left memory banks**) [**Col. 2, Lines 18-31; Col. 6, Lines 25-59; Col. 5, Lines 16-61**]; a global register for storing a control value and a mapped said first status value or mapped said second status value, or storing a control value, a mapped said first status value and mapped said second status value (**semaphore logic control circuit 302 coupled to**

left and right register decoder circuits, 303 and 304, for providing addresses corresponding to register banks in the memory device 201 to generate enable signals for the registers) [Col. 2, Lines 18-31; Col. 6, Lines 25-59; Col. 5, Lines 16-61; Col. 7, Lines 1-17]; an address decoder coupling with said CPU to decode an address signal (left and right register decoder 303 and 304 for decoding addresses***); and a selector for selecting said first register bank or said second register bank to couple with said address decoder according to said control value stored in said global register, wherein said CPU can access said first register bank or said second register bank through said address decoder (***selector/multiplexer for selectively activate left or right bank decoder circuit in response to left and right multiplexer select signal***) [Col. 2, Lines 18-31; Col. 7, Lines 1-17, Fig. 16-17].***

With respect to claims 2-5, 7-8, 10-11, 13-14, 17, and 19-20, Mick discloses the dual ports structure wherein said values comprises a status value; said first register bank and said second register bank have a same address; said second status value of said second register bank is mapped to said global register when said first register bank is coupled with said address decoder; said first status value of said first register bank is mapped to said global register when said second register bank is coupled with said address decoder [Col. 2, Lines 18-31; Col. 6, Lines 25-59; Col. 5, Lines 16-61; Col. 7, Lines 1-17].

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 6,108,756 (Miller et al) teaching semaphore to allow bank selection and shared resource memory.

US 6,763,418 (Chou) teaching plurality of ports and arbitration based on a set of values stored in a mask register.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pierre-Michel Bataille whose telephone number is (571) 272-4178. The examiner can normally be reached on Mon-Fri (8:00A to 4:30P).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew M. Kim can be reached on (571) 272-4182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Pierre-Michel Bataille
Primary Examiner
Art Unit 2186

**PIERRE BATAILLE
PRIMARY EXAMINER**